

WHAT IS CLAIMED IS:

1           1. A set of trimming accessories for trimming a rubber plate which is  
2 configured to be placed on a platform of an ion implanter, the platform of the ion implanter  
3 including a plurality of primary holes and a plurality of primary notches, the set of trimming  
4 accessories comprising:

5                   a trimming member configured to trim the rubber plate; and

6                   a template including a plurality of secondary holes corresponding to the

7                 plurality of primary holes of the platform of the ion implanter and a plurality of secondary  
8                 holes corresponding to the plurality of primary notches of the platform of the ion  
9                 implanter, the template being adapted to guide the trimming member to trim the rubber plate  
10                to form a plurality of tertiary holes in the rubber plate corresponding to the plurality of  
11                secondary holes of the template and to form a plurality of tertiary notches in the rubber plate  
12                corresponding to the plurality of secondary notches of the template.

1           2. The set of trimming accessories of claim 1 wherein the trimming  
2 member comprises a knife.

1           3. The set of trimming accessories of claim 1 wherein the trimming  
2 member comprises a laser.

1           4. The set of trimming accessories of claim 1 further comprising an  
2 optical detector configured to detect contours of the template formed by the plurality of  
3 secondary holes and the plurality of secondary notches.

1           5. The set of trimming accessories of claim 4 further comprising a  
2 controller coupled to the trimming member and to the optical detector to control the trimming  
3 member based on the detected contours of the template from the optical detector to trim the  
4 rubber plate to form the plurality of tertiary holes in the rubber plate corresponding to the  
5 plurality of secondary holes of the template and to form the plurality of tertiary notches in the  
6 rubber plate corresponding to the plurality of secondary notches of the template.

1           6. The set of trimming accessories of claim 1 wherein the template is  
2 adapted to be placed over the rubber plate for guiding the trimming member to trim the  
3 rubber plate.

1           7.     A method for trimming a rubber plate which is configured to be placed  
2 on a platform of an ion implanter, the platform of the ion implanter including a plurality of  
3 primary holes and a plurality of primary notches, the method comprising:

4                 providing a template including a plurality of secondary holes corresponding to  
5 the plurality of primary holes of the platform of the ion implanter and a plurality of secondary  
6 notches corresponding to the plurality of primary notches of the platform of the ion  
7 implanter; and

8                 trimming the rubber plate using the template as a guide to form a plurality of  
9 tertiary holes in the rubber plate corresponding to the plurality of secondary holes of the  
10 template and to form a plurality of tertiary notches in the rubber plate corresponding to the  
11 plurality of secondary notches of the template.

12           8.     The method of claim 7 wherein the template is placed over the rubber  
13 plate for guiding a trimming member to trim the rubber plate.

14           9.     The method of claim 7 wherein the rubber plate is trimmed using a  
15 trimming member selected from the group consisting of a knife and a laser.

16           10.    The method of claim 7 further comprising providing a controller to  
17 automatically control a trimming member based on contours of the template to trim the  
18 rubber plate to form the plurality of tertiary holes in the rubber plate corresponding to the  
19 plurality of secondary holes of the template and to form the plurality of tertiary notches in the  
20 rubber plate corresponding to the plurality of secondary notches of the template.

21           11.    The method of claim 10 further comprising optically detecting the  
22 contours of the template and providing the detected contours to the controller to  
23 automatically control the trimming member based on the detected contours of the template to  
24 trim the rubber plate.

25           12.    The method of claim 7 wherein the tertiary holes in the rubber plate are  
26 trimmed to match the primary holes of the platform and the tertiary notches in the rubber  
27 plate are trimmed to match the primary notches of the platform.

1           13. A method for trimming a rubber plate which is configured to be placed  
2 on a platform of an ion implanter, the platform of the ion implanter including a plurality of  
3 primary holes and a plurality of primary notches, the method comprising:

4           providing a template including a plurality of secondary holes corresponding to  
5 the plurality of primary holes of the platform of the ion implanter and a plurality of secondary  
6 notches corresponding to the plurality of primary notches of the platform of the ion  
7 implanter;

8           placing the template over the rubber plate; and

9           automatically controlling a trimming member for trimming the rubber plate to  
10 form a plurality of tertiary holes in the rubber plate corresponding to the plurality of  
11 secondary holes of the template and to form a plurality of tertiary notches in the rubber plate  
12 corresponding to the plurality of secondary notches of the template.

1           14. The method of claim 13 further comprising optically detecting  
2 contours of the template and providing the detected contours to the controller to  
3 automatically control the trimming member based on the detected contours of the template to  
4 trim the rubber plate.

1           15. The method of claim 13 wherein the tertiary holes in the rubber plate  
2 are trimmed to match the primary holes of the platform and the tertiary notches in the rubber  
3 plate are trimmed to match the primary notches of the platform.

1           16. The method of claim 13 wherein the trimming member comprises a  
2 laser.

1           17. The method of claim 13 wherein the trimming member comprises a  
2 knife.

1           18. The method of claim 13 further comprising placing the trimmed rubber  
2 plate on the platform so that the tertiary holes of the rubber plate match the primary holes of  
3 the platform and the tertiary notches of the rubber plate match the primary notches of the  
4 platform.